SCREENED DETECTOR AND AMPLIFYING VALVE

KTZ63/ 6J7G

JULY, 1956

DESCRIPTION

Type KTZ63/6J7G is an indirectly heated Pentode suitable for use as a Detector or in an H.F. or L.F. amplifier. The type may also be employed as a Triode by external connection of the screen grid and anode, in cases where a Triode of medium impedance is desired. The control grid is taken to a top cap connection.

Type KTZ63/6J7G may also be used as an oscillator and as such is of great use in ultra-short wave super-heterodyne receivers.

RATINGS

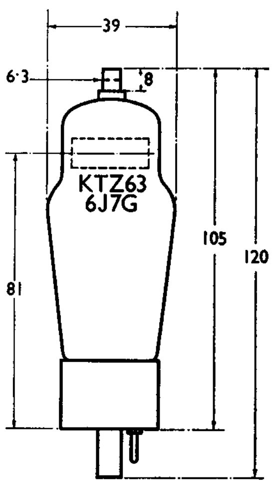
Heater Voltage ...	6·3	
Heater Current ...	0·3	amp. approx.
Anode Voltage ...	250	max.
Screen Voltage ...	125	max.
Mutual Conductance* ...	1·23	mA/volt

*measured at Va 250 ; Vg2 100 ; Vg1 –3.

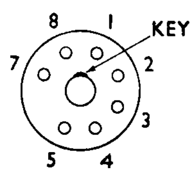
Capacitances (As pentode) :

Grid to All ...	4·7	pF approx.
Anode to All ...	9·9	,, ,,
Anode to Grid ...	0·0038	,, ,,

DIMENSIONS



BASE



View looking on underside of base.

7 Pin " Octal "

1 : Internal Metallic Screen
2 : Heater
3 : Anode
4 : Screen Grid g2
5 : Suppressor Grid g3 (6J7G only)
7 : Heater
8 : Cathode
Top Cap : Control Grid g1

Note : Care should be taken to note the difference in pin connections between type KTZ63/6J7G and the " Kinkless tetrode " type KTZ63. The latter has suppressor plates joined internally to cathode, pin 5 in this case having no connection.

Supplied with unmetallised bulb only.

All dimensions are in m/m and are max. except where otherwise stated.

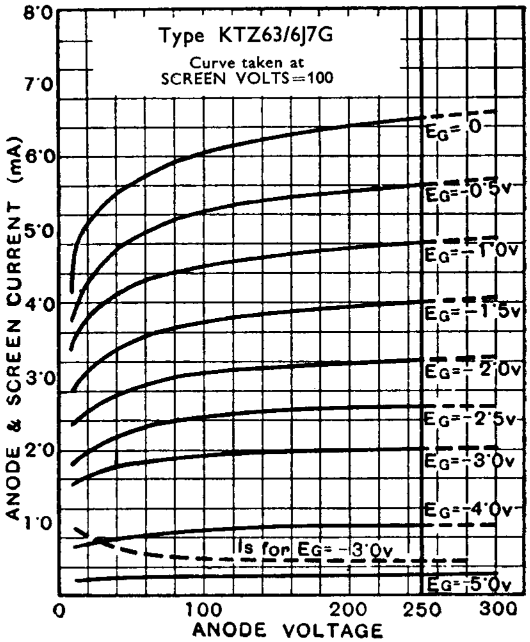
OPERATING CONDITIONS

	Pentode connected	Triode connected G2 to A G3 to K
Anode Voltage ...	250	250
Screen Voltage ...	100	—
Anode Current, mA ...	1·0	3
Screen Current, mA ...	0·25	—
Grid Bias Voltage ...	–2	–3
Impedance, ohms ...	1·5 meg.	10,500
Cathode Bias Resistance, ohms ...	2,200	1,000
Optimum Load in Resistance Amplifier, ohms ...	250,000	50,000
Screen Resistance, ohms ...	1 meg.	—

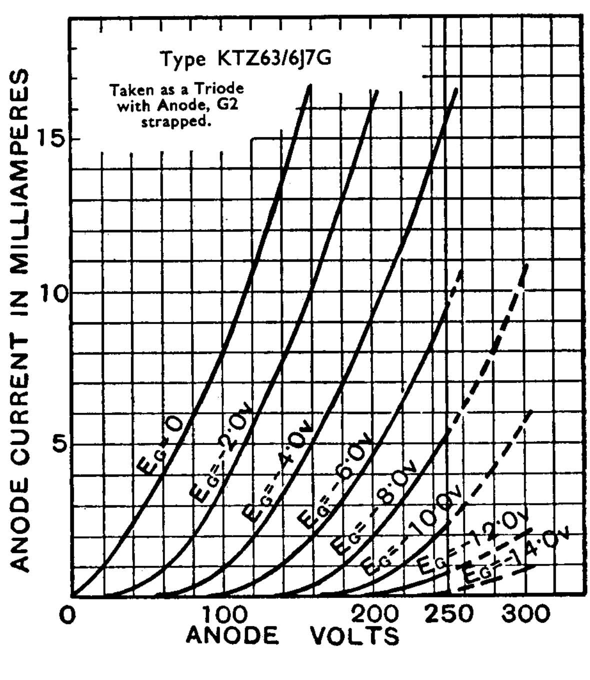
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KTZ63/ 6J7G



CHARACTERISTIC CURVES OF AVERAGE VALVE.



Printed in England. C.